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Novel moldable compound

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The present invention relates to a novel moldable compound comprising two homogenized materials, one of which is a thermoplastic material and the other a plant material.

The object of the invention is a novel moldable compound comprising two materials, one of which is a thermoplastic material, such as high-density or low-density polyethylene, for example, soft or hard PVC, polystyrene or any other plastic material mixed with a plant material, such as wood sawdust that has been dried and sifted to obtain a particle size grading of five [illegible] maximum. mesh

The novel moldable compound is obtained by mixing a thermoplastic material into the dried and sifted wood sawdust at a proportion of ^{10%} [illegible] to 90% by volume of said sawdust depending on the texture of the molded parts to be obtained which are a function of the compound such that said parts are soft or hard after homogenization of the materials during their pass through the extruder.

After the novel compound comes out of the extruder, it can either be directly molded or granules may be obtained for later use in a pass through another extruder.

The molded parts made from the compound have the advantage that they are water proof and thus can be immersed in fresh water or salt water without altering the compound or the parts.

According to one embodiment of the invention, the compound may be lightened by including swelling agents before the materials or the granules are passed through the extruder or before they are injected into the molds.

The compound may also be dyed by dry coloring.

The novel compound may be used for a wide variety of molded parts, notably to fabricate boxes or trays for packing solid materials or foodstuff, to make panels or props, to fabricate toys, furniture, partitions, etc.

Claims

- 1) Novel moldable compound comprising two materials homogenized by means of an extruder, characterized by the homogenized materials, one of which is a thermoplastic material that is mixed with a plant material.
- 2) Novel moldable compound in accordance with Claim 1, characterized in that the plant material is dried and sifted wood sawdust.
- 3) Novel moldable compound in accordance with Claim 1, characterized by the addition of swelling agents before extrusion.
- 4) Novel moldable compound in accordance with Claim 1, characterized in that the thermoplastic materials can be high-density or low-density polyethylene, soft or hard PVC, polystyrene or any other plastic material.
- 5) Novel moldable compound in accordance with Claims 1, 2, 3, 4 characterized by the proportion of thermoplastic material ranging from 10 to 90% of the saw dust volume.
- 6) Novel moldable compound in accordance with Claim 1, characterized in that it is dyed by dry coloring.
- 7) Novel moldable compound in accordance with Claim 1, characterized in that the novel material is molded directly after it comes out of the extruder or is converted into granules.
- 8) Novel moldable compound in accordance with Claim 1, characterized in that the compound [illegible] parts are not altered when immersed in fresh water or salt water.

